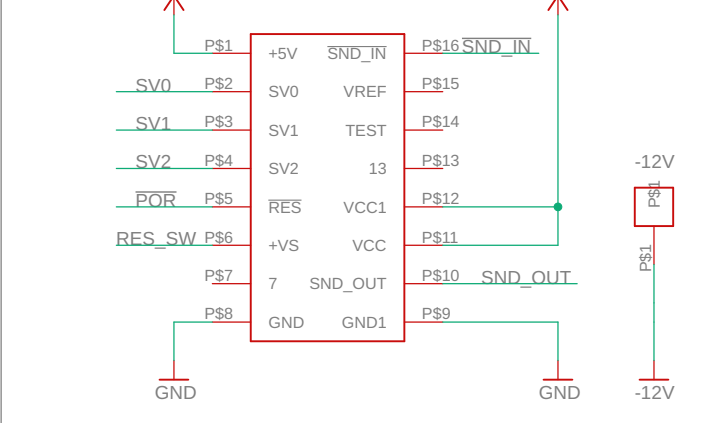
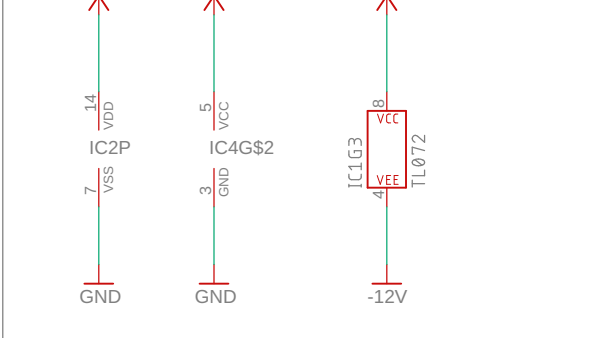


Sony SND Connector	IC Power Rails
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+5V IC5 +12V

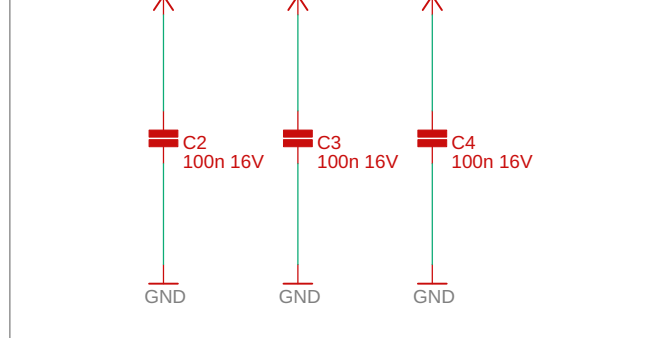


+5V +5V +12V



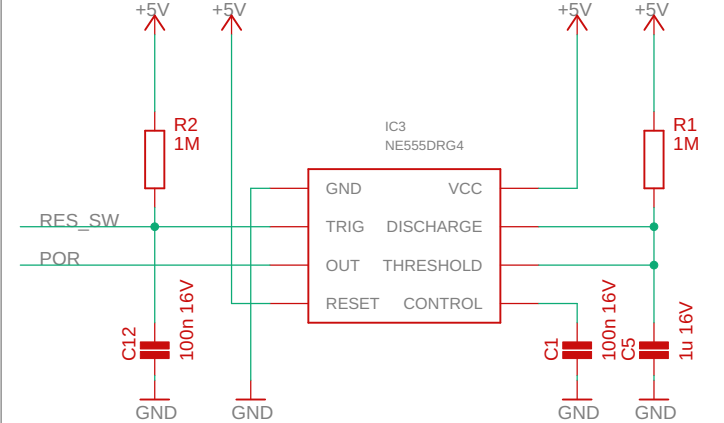
Engineers Note:
-12V is required by the 128K Audio circuitry, but is not present on the Sony SND Pinout. It will need to be tapped from elsewhere on the board.

+5V +5V +5V



Note: This design is based on the Macintosh 128K Audio Amplifier and Volume Control.
Power On Reset Taken from 68000 Designers Handbook

S/C: N/A	
Drawn By: DosFox	SND_SMD_Replacement
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[illegible]

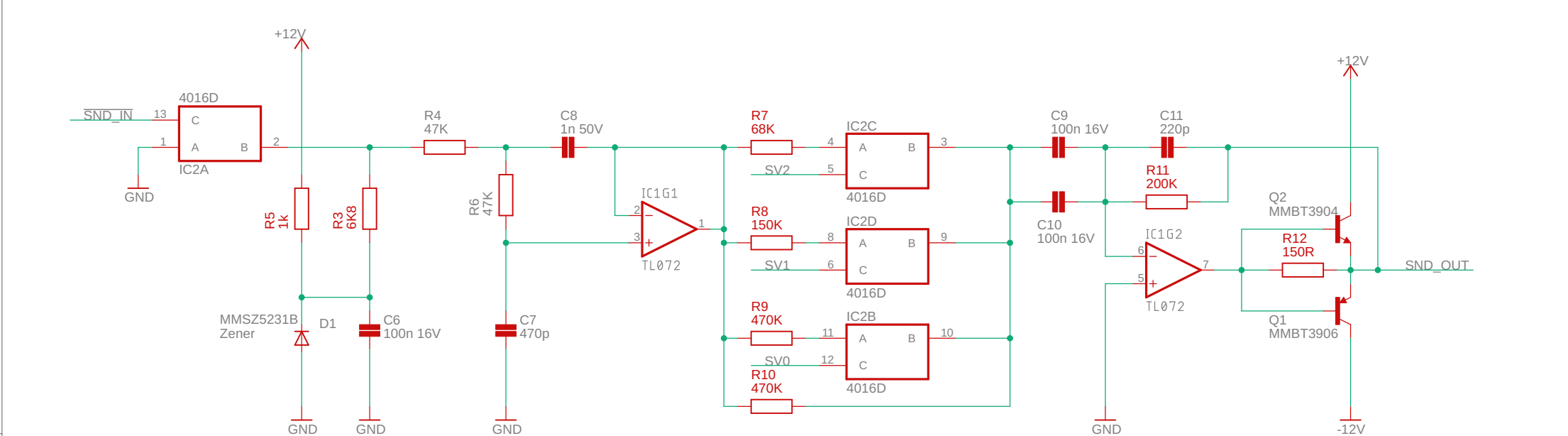
Engineers Note:
It is VITAL that the 47R resistor at R21 is removed or clipped
on the Plus Logic Board. If not, the system will be held in reset.

Alternatively, replace R21 on the logic board with a 1M resistor, and Do Not Fit R2 on this SND replacement board.

IC4G\$1



Engineers Note:
The 74LS05 is required, as the POR is expected to be open collector.
DO NOT SUBSTITUTE



Engineers Note:
Design inspired from the Macintosh 128K Logic Board Schematic. The 5.1V zener is being used as an analogue reference voltage for the amplifier.
4016 is a quad analog switch, so the signal is instantly inverted by grounding the vref voltage by Switch 1.
This is then passed through to a unity gain buffer, before Switches 2-3 are used to adjust the volume by altering the resistance to the final Op-Amp.

10R resistor has been added to the output - might be tweaked later.